

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To:

YOSHIDA, Toshio
YOSHIDA PATENT OFFICE
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Shibuya-ku, Tokyo 1500022
JAPON

Date of mailing (*day/month/year*)

10 November 2005 (10.11.2005)

Applicant's or agent's file reference
19133**IMPORTANT NOTIFICATION**International application No.
PCT/JP2004/000518International filing date (*day/month/year*)
22 January 2004 (22.01.2004)

Applicant

NOK CORPORATION et al

1. Transmittal of the translation to the applicant.☐

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

☒

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

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Translation

PATENT COOPERATION TREATY

PCT/JP2004/000518



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 19133	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2004/000518	International filing date (day/month/year) 22 January 2004 (22.01.2004)	Priority date (day/month/year) 12 February 2003 (12.02.2003)
International Patent Classification (IPC) or national classification and IPC C09J 161/06, B23B 7/12, C09J 129/04, 201/00		
Applicant NOK CORPORATION		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 4 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
 - ☒ (sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
- This report contains indications relating to the following items:
 - ☒ Box No. I Basis of the report
 - ☐ Box No. II Priority
 - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - ☒ Box No. IV Lack of unity of invention
 - ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - ☐ Box No. VI Certain documents cited
 - ☐ Box No. VII Certain defects in the international application
 - ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 11 May 2004 (11.05.2004)	Date of completion of this report 30 May 2003 (30.05.2003)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/000518

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages _____ 1,3-12 _____, as originally filed/furnished
- pages* _____ 2 _____ received by this Authority on _____ 11 May 2004 (11.05.2004)
- pages* _____ received by this Authority on _____
- ☒ the claims:
- pages _____ 2,4-12,14-17 _____, as originally filed/furnished
- pages* _____, as amended (together with any statement) under Article 19
- pages* _____ 1,13 _____ received by this Authority on _____ 11 May 2004 (11.05.2004)
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☒ the claims, Nos. _____ 3 _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP04/00518

Box No. IV Lack of unity of invention

1. ☐ In response to the invitation to restrict or pay additional fees the applicant has:

- ☐ restricted the claims.
- ☒ paid additional fees.
- ☐ paid additional fees under protest.
- ☐ neither restricted nor paid additional fees.

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

- ☐ complied with.
- ☒ not complied with for the following reasons:

The matter common to claims 1-17 excluding claim 3 deleted by an amendment is "a phenol resin emulsion produced from a methyl ethyl ketone solution of a water insoluble phenol resin and a water soluble polymeric substance aqueous solution" stated in claim 1. However, as a result of international search, the said common matter was considered to be equivalent to the inventions disclosed in the respective documents cited in the ISR or could have been easily invented by a person skilled in the art based on the inventions disclosed in the respective documents. So, the common matter does not appear to be novel or to involve an inventive step, and is not considered to be a special technical feature as in PCT Rule 13.2. It is not considered either that there is any other common matter recognized as a special technical feature.

Since it is not considered that there is any other common matter recognized as a special technical feature, claims 1-17 excluding claim 3 are not considered to be a group of inventions so linked as to form a single general inventive concept.

4. Consequently, this report has been established in respect of the following parts of the international application:

- ☒ all parts.
- ☐ the parts relating to claims Nos. _____

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP04/000518

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims		YES
	Claims	1-2, 4-17	NO
Inventive step (IS)	Claims		YES
	Claims	1-2, 4-17	NO
Industrial applicability (IA)	Claims	1-2, 4-17	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 6-306340, A (NOK Corp.), 1 November, 1994 (01.11.94)

Document 2: US, 5200455, B1 (Lord Corp.), 6 April, 1993 (06.04.93)

Document 3: JP, 61-278579, A (NOK Corp.), 9 December, 1986 (09.12.86)

The subject matters of claims 1, 2 and 4-17 do not appear to be novel in view of the disclosure of document 1.

Document 1 discloses (1) a phenol resin aqueous emulsion produced from a methyl ethyl ketone solution of a water insoluble phenol resin and a PVA aqueous solution, (2) an aqueous vulcanizable adhesive composition containing the said emulsion and a curing agent such as hexamethylenetetramine, and (3) a composite having a metal and a rubber such as NBR vulcanized and bonded to each other by the said adhesive composition. The document also discloses that the said aqueous vulcanizable adhesive composition has adhesive performance similar to that of organic solvent solution type and can also respond to environmental regulations since the organic solvent content can be decreased.

Furthermore, the subject matters of 1, 2 and 4-17 do not appear to involve an inventive step in view of the disclosures of documents 1-3.

Document 2 discloses (1) a phenol resin aqueous emulsion produced from an organic solvent solution of a water insoluble phenol resin and a PVA aqueous solution, (2) an aqueous vulcanizable adhesive composition containing the said emulsion and a curing agent such as hexamethylenetetramine, and (3) a composite having a metal and a rubber such as NBR vulcanized and bonded to each other by the said adhesive composition.

If the invention disclosed in document 2 is compared with the subject matters of claims 1-17, document 2 does not particularly disclose that methyl ethyl ketone is used as an organic solvent, and this is the sole difference. However, as disclosed in document 1 or 3, it is a well-known and commonly used technique in this industry that an adequate amount of methyl ethyl ketone is used as an organic solvent in a phenol resin-based vulcanizable. The constitution, in which an adequate amount of methyl ethyl ketone is used as an organic solvent in the invention disclosed in document 2, is not considered to need any special technical inventive idea.